Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of the Claims:

1. (Currently Amended_) A method of monitoring processor resources, said method comprising:

determining if an architectural stack includes resources needed by a block of code, the block of code including multiple instructions;

testing, at a start of said block of code, testing to determine if the-resources of an architectural stack that are needed by a block of code, the block of code including multiple instructions, of the stack are available for the instructions to be executed; and

signaling an error if said resources needed for said block of code are not available.

2. (Original) The method as claimed in claim 1, said method further comprising:

determining a set of available resources that will be available after said block of code has executed.

3. (Canceled).

4. (Previously Presented) The method as claimed in claim 1 wherein said

needed resources -are determined at a compile time.

5. (Previously Presented) The method as claimed in claim 1 wherein said

needed resources are determined dynamically.

6. (Previously Presented) The method as claimed in claim 1 wherein

signaling said error if said resources needed for said block of code are not

available comprises branching to a fault handler routine.

7. (Original) The method as claimed in claim 6 wherein signaling said fault

handler routine simulates a processor exception.

(Original) The method as claimed in claim 1 wherein needed resources are 8.

represented by a bit vector.

9. (Original) The method as claimed in claim 8 wherein said bit vector is

generated dynamically.

10. (Currently Amended) A computer-readable medium having stored

thereon a set of instructions to monitor processor resources, said set of

instruction, which when executed by a processor, cause said processor to

perform a method comprising:

Appl. No. 09/458,121 Amdt. filed 05/18/2004 determining if an architectural stack includes resources needed by a block

of code, the block of code including multiple instructions;

testing, at a start of said block of code, testing to determine if the resources

of an architectural stack that are needed by a block of code, the block of code

including multiple instructions, of the stack are available for the multiple

instructions to be executed; and

signaling an error if said resources needed for said block of code are not

available.

11. (Original) The computer-readable medium as claimed in claim 10,

wherein said set of instructions further includes additional instructions, which

when executed by said processor, cause said processor to perform said method

further comprising:

determining a set of available resources that will be available after said

block of code has executed.

12. (Canceled)

13. (Previously Presented) The computer-readable medium as claimed in

claim 10 wherein said -needed resources are determined at a compile time.

14. (Previously Presented) The computer-readable medium as claimed in

claim 10 wherein said needed resources are -determined dynamically.

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- 15. (Previously Presented) The computer-readable medium as claimed in claim 10 wherein signaling said error if said resources needed for said block of code are not available comprises branching to a fault handler routine.
- 16. (Original) The computer-readable medium as claimed in claim 15 wherein signaling said fault handler routine simulates a processor exception.
- 17. (Original) The computer-readable medium as claimed in claim 10 wherein needed resources are represented by a bit vector.
- 18. (Original) The computer-readable medium as claimed in claim 17 wherein said bit vector is generated dynamically.
- 19. (Currently Amended) A computer-readable medium, having stored thereon a first set of instructions, the first set of instructions, which when executed by a processor, generate a second set of instructions through a binary translation process, the second set of instructions when executed by the processor, cause said processor to perform a method comprising:

determining if an architectural stack includes resources needed by a block of code, the block of code including multiple instructions;

testing, at a start of said block of code, testing to determine if the resources of an architectural stack that are needed by a block of code, the block of code including multiple instructions, of the stack are available for the multiple instructions to be executed; and

signaling an error if said resources needed for said block of code are not available.

20. (Original) The computer-readable medium as claimed in claim 19, wherein said set of instructions further includes additional instructions, which when executed by said processor, cause said processor to perform said method further comprising:

determining a set of available resources that will be available after said block of code has executed.

- 21. (Canceled)
- 22. (Previously Presented) The computer-readable medium as claimed in claim 19 wherein said needed resources are determined dynamically.
- 23. (Previously Presented) The computer-readable medium as claimed in claim 19 wherein signaling said error if said resources needed for said block of code are not available comprises branching to a fault handler routine.
- 24. (Original) The computer-readable medium as claimed in claim 23 wherein signaling said fault handler routine simulates a processor exception.
- 25. (Original) The computer-readable medium as claimed in claim 19 wherein needed resources are represented by a bit vector.